Title | Maintain a semi-worsted or worsted ring spinning machine
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Level | 5
Credits | 60

**Purpose**
This unit standard is for people working in semi-worsted or worsted spinning. People credited with this unit standard are able to: prepare a spinning machine maintenance schedule; carry out routine maintenance on a semi-worsted or worsted ring spinning machine; rectify spinning machine mechanism and component faults; and tune spinning machine for optimum performance.

**Classification**
Textiles Manufacture > Top Making, Semi-Worsted and Worsted Processing

**Available grade**
Achieved

**Entry information**

**Critical health and safety prerequisites**
Prerequisites: Unit 3140, *Spin yarn on a semi-worsted or worsted spinning machine*, and Unit 3141, *Set-up a semi-worsted or worsted spinning machine to spin yarn*, or demonstrate equivalent knowledge and skills.

**Explanatory notes**
1. Competence will be demonstrated on a spinning machine used in the candidate’s workplace.
2. Plant safety practices must comply with the Health and Safety in Employment Act 1992 and workplace procedures.
3. Workplace productivity and quality requirements must be met.
4. It is recommended that persons seeking credit for this unit standard know the handling procedures for electronic circuit cards.

**Outcomes and evidence requirements**

**Outcome 1**
Prepare a spinning machine maintenance schedule.

**Evidence requirements**
1.1 Schedule identifies spinning machine sections and parts requiring routine maintenance according to workplace requirements.

1.2 Schedule indicates timing and frequency of maintenance.

1.3 Procedures for maintenance are specified.

**Outcome 2**

Carry out routine maintenance on a semi-worsted or worsted ring spinning machine.

**Evidence requirements**

2.1 Maintenance is carried out according to maintenance schedule and workplace practice.

Range sections and parts identified in schedule, timing and frequency, procedures specified in schedule.

2.2 Maintenance records are kept according to workplace requirements.

**Outcome 3**

Rectify spinning machine mechanism and component faults.

Range components and mechanisms are – creel, spindle assembly, spindle tape circuit, drafting mechanism and cots, gear train, spindle drive train and line shaft, builder mechanism, ring and ring holder, doffing mechanism, clutches, oiling system.

**Evidence requirements**

3.1 Mechanism or component is removed and/or disassembled according to manufacturer’s procedure to enable replacement or repair.

3.2 Mechanism or component is assessed for replacement or repair according to manufacturer’s and/or workplace criteria.

3.3 Replacement or repair is carried out according to manufacturer’s and/or workplace procedure.

3.4 Mechanism or component is reassembled and/or replaced on spinning machine according to manufacturer’s procedure.

3.5 Repaired mechanism is reset and/or tuned to operate to machine specification.

**Outcome 4**

Tune spinning machine for optimum performance.

**Evidence requirements**
4.1 Cause of sub-standard performance is identified and corrective action chosen according to workplace practice.

4.2 Corrective action is prioritised in relation to production schedule and resource constraints.

Range resource constraints – labour, parts, finance.

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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

**Status information and last date for assessment for superseded versions**

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<thead>
<tr>
<th>Process</th>
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<td>Registration</td>
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<td>20 March 2003</td>
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**Consent and Moderation Requirements (CMR) reference** 0030


**Please note**

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.